HDMI Matrix (Router Type)
Model:LM-MX04

Dear customer:

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Features

1. HDCP 1.2
2. 4 HDMI inputs and 4 HDMI outputs.
3. Fully HDMI routing function.
4. Support resolution up to 1080p.
5. 4 IR emitters to control the 4 sources, the IR control is routing type.
6. Mounting ears supplied to fix the unit to hidden place.
7. Intelligent EDID setting function.
8. USB upgrading function.
9. Support 3D video format
10. Compact size

Notice

Our company reserves the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.

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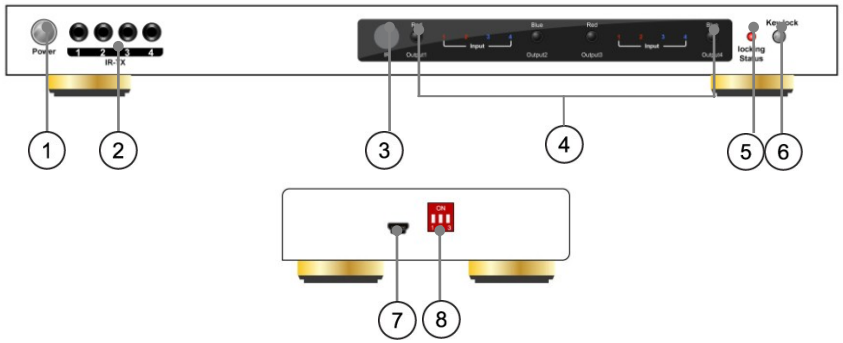
Package Contents

1. Main unit. 4x4 HDMI Matrix
2. 5VDC Power Supply.
3. 1x Remote.
4. 4x IR-TX extension cable.
5. 4x IR-RX extension cable.
6. 4xIR receiver cable extender jacks
7. Operating Instructions.

PANEL DESCRIPTIONS

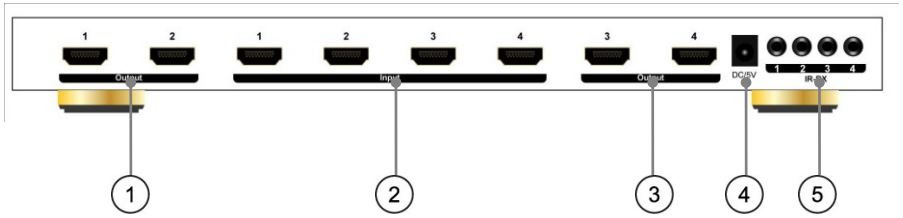
Front panel



1）Power switch.
2）IR TX out 1 TO 4.
3）IR window.

4）Output selection and indicator of input for output port 1 to 4.
5）Indicator of locking status, when the output selection buttons are locked, LED inside lit.
6）Key lock button.
7）USB port for ISP.
8）DIP switch.

Rear panel



1）Output 1 and 2 with HDMI.
2）Input ports 1 to 4 with HDMI.
3）Output 3 and 4 with HDMI.
4）Power input.
5）IR extension 1to 4.

CONNECT AND OPERATION

1) Connect the HDMI input sources (such as HD-DVD, PS3, STB etc) into 4x4 HDMI Matrix.
2) Connect the HDMI outputs (such as HD-LCD, HD-DLP) into 4x4 HDMI Matrix.
3) Connect the IR RX receiving cable into 4x4 HDMI Matrix extension and connect The IR TX cable into 4x4 HDMI Matrix emitter
4) Power on the input source you want to show. (Keep the unused input power off, otherwise it may interfere the normal display.)
5) Connect the power supply into 4x4 HDMI Matrix and turn on the display you want to watch

6) Use remote or push the button to choose input source. Extra infrared receiver extensions, IR emitter, are supplied for remote control.
7) The IR signal of any IR extension will through "TX IR" port to send the signal out.
8) SOURCE-SINK AUTO FIT Function

This function applies to the situation when the source's HDMI version exceeds the sink's HDMI version. (This function can be used to fix the deep color, 1080P, 1080i, 2ch audio, multi channel audio issue.)
For example: When the TV is HDMI 1.2 version and PS3 source is HDMI 1.3 version, it will output HDMI 1.2 version.
(1)Under default mode, this machine will output 1.2 version HDMI signal (1080P and stereo audio).
(2) Under button mode.
There are two modes to update the EDID data according to the DIP setting. When the DIP is in default mode (0,0,0), the matrix will be in mix mode.

A、When the source is HDMI1.3, (e.g., HDMI output from PS3), OUTPUT1 to 4 both support HDMI1.3 displays, press "selection of OUTPUT1" and "lock key" simultaneously, the machine will output HDMI1.3 signals.

B、When the source is HDMI1.3, (e.g., the HDMI output from PS3), OUTPUT 1 to 4 are connected to the displays that can only support HDMI 1.2 MAX, press "selection of OUTPUT1" and "lock key" simultaneously (no matter whether HDMI OUTPUT port is connected to the display that supports HDMI 1.3 or not), it will output HDMI 1.2 signals.
When the DIP is in default mode (1,0,0), the matrix will be in copy

mode .

Note: The method to reset the machine to default EDID setting: Disconnect the input and output. Please press "selection of OUTPUT1" and "lock key" Simultaneously for at least 3 seconds, and EDID of all the four input ports will be reset to the default setting. The audio setting of the default EDID is stereo. It is suitable for TV sets.

9）DIP switch setting

Position ID			
1	2	3	
0	0	0	Mix the low version EDID.(default) (note 1)
0	0	1	reserved
0	1	0	reserved
0	1	1	reserved
1	0	0	Copy the EDID of the display which connected the
1	0	1	reserved
1	1	0	reserved
1	1	1	reserved

Note1: The matrix will mix the EDID data of the sink devices. The mixed EDID data will use the lowest resolution of the video and the least channel number of the audio. For example, some sink device support 1080P, some sink device only support 1080i, some support 5.1 audio, but some only support stereo. Then the mixed EDID will be 1080i and stereo.

Note2: If user wants to just use one sink device's EDID data, this DIP setting can be used. (1.0,0)

Attention:

Please insert or extract cables gently**.**

SPECIFICATIONS

Operating Temperature	-5 to +35°C (+23 to +95 °F)
Operating Humidity	5 to 90 % RH (no condensation)
Input Video Signal	0.5-1.0 volts p-p
Input DDC Signal	5 volts p-p (TTL)
Signaling Rate	2.25Gbit/s
Video Amplifier	140MHz
Data transfer speed rate	6.75Gbps(Maximum)
Video Format	DTV/HDTV: 1080P/1080i/720P/576P/480P/576i/480i
Video Color Format	xv-YCC/deep color 36bit
Audio Format	DTS-HD Master Audio、Dolby true-HD etc
Output Video	HDMI 1.3+HDCP1.2
Maximum Transmission	<15m (If needed, HDMI extender is
Power Consumption	12wtts (Max)
Dimensions	290mmL×100mmW×26mmH/17.3"L×7
Mass (Main Unit)	0.7kg/4.4lb
IR wavelength	Wavelength:940nm,frequency 38kHz

***Note: Specifications are subject to change without notice. Mass and dimensions are approximate.**

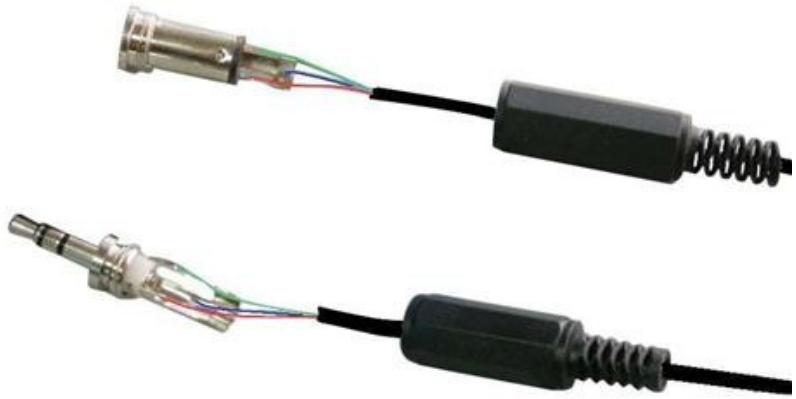
IR receiver cable extender jacks.

When the display device is not near to the matrix, the IR_RX cable will be too

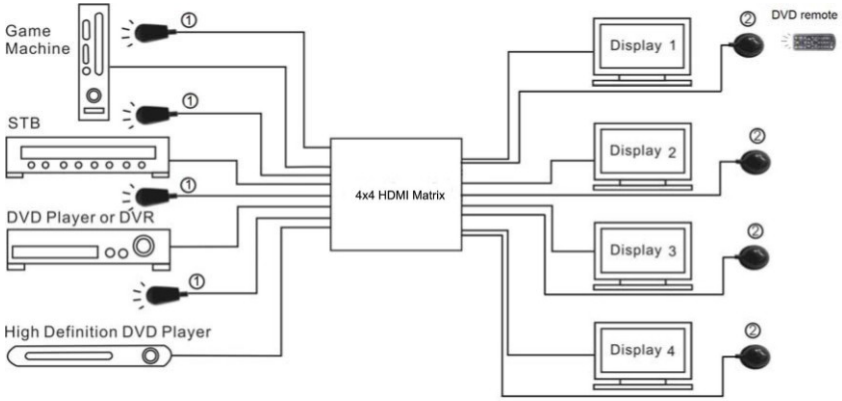
short. There is a pair of jacks to extend the IR_RX cable. Customer or installer

can use the headphone cable or 4-line telephone cable to form the IR cable extender.

Use the male jack and female jack to extend the IR_RX cable like the picture below.



TYPICAL APPLICATION



Note: ① IR RX , ② IR TX

MAINTENANCE

Clean this unit with a soft, dry cloth**.** Never use alcohol, paint thinner or benzine to clean this unit.